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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9 (canceled).

Claim 10 (currently amended): A method for treating a patient having a disorder associated with excessive activation of the α -amino-3-hydroxy-5-methyl-4-isooxazoleproprionic acid (AMPA) subtype of the ionotropic excitatory amino acid (EAA) receptors, the method comprising administering to the patient, in an effective amount to alleviate the symptoms of the disorder, a compound of Formula I:

wherein

 $\mbox{R}^{1}\text{, }\mbox{R}^{2}\text{, }\mbox{R}^{3}\mbox{ and }\mbox{R}^{4}\mbox{ are independently}$

Η,

HO,

 $R^{11}O-$,

halogen,

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             C1-C3-alkyl,
             CF_3,
             R^{12}CO_2-
            R^{12}O_2C_{-1}
             R^{12}CO-
             R<sup>12</sup>CONH-,
             R<sup>12</sup>NHCO-,
             R^{12}NHCO_2-
             R<sup>12</sup>OCONH-,
             R^{12}O_2S-
             R^{12}OS-, or
             R^{13}R^{14}N-; or
      R^1 and R^2, or R^2 and R^3, or R^3 and R^4 taken together can be
             -SCH<sub>2</sub>S-,
             -SCH<sub>2</sub>O-,
             -OCH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>O-, or
             -OCH<sub>2</sub>CH<sub>2</sub>S-;
      wherein at least one of R^1, R^2, R^3 or R^4 must be a C1-C3-
alkylthio group,
      R^5 and R^6 are independently
             Η,
             C1-C6-alkyl,
             C3-C6-alkenyl,
             C3-C6-cycloalkyl, or
             phenyl or substituted phenyl, wherein the phenyl is
substituted with one or two substituents selected from the group
consisting of C1-C3-alkyl, halogen, R11O-, CF3,
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R^{12}O_2S_{-}, R^{12}OS_{-}, R^{12}CO_{-}, R^{12}CO_{2}_{-}, R^{12}O_2C_{-}, R^{12}CONH_{-}, R^{12}NHCO_{-}
R^{12}NHCO_2-, R^{12}OCONH-, and R^{13}R^{14}N-; or
       R<sup>5</sup> and R<sup>6</sup> taken together can be C3-C6-cycloalkyl;
       R^7 is
               R^{13}R^{14}NCO-
               R^{13}R^{14}NCS-
               R^{13}R^{14}N(HCR^{15}) - 
               R^{15}OCO-
               R^{13}CO-
               R^{13}R^{14}NCH_2CO-
               R^{12}O_2C-(CH_2)_n-,
               R^{13}R^{14}NCO-(CH_2)_n-
               NC-(CH_2)_n-
               Η,
               C1-C6-alkyl,
               C3-C6-alkenyl, or
               C3-C6-cycloalkyl; or
       R^6 and R^7 taken together can be
               -(CH_2)_mCH_2(R^{13})NCO-
               -(CH<sub>2</sub>)<sub>m</sub>CH<sub>2</sub>OCO-, or
               - (CH<sub>2</sub>)<sub>m</sub>CH<sub>2</sub>CH<sub>2</sub>CO-;
       R^8 and R^9 are independently
               Η,
               R^{13}R^{14}N-
               R^{13}R^{14}N(HCR^{15}) - 
              R<sup>12</sup>HNCO-, or
               R<sup>12</sup>CONH-;
       R^{10} is
               Η,
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           halogen,
           HO,
           R<sup>11</sup>O-,
           R^{13}R^{14}N-
           C1-C3-alkyl,
           CF_3,
           R^{12}CO_2-
           R^{12}CO-, or
           R<sup>12</sup>CONH-;
     R^{11} is C1-C3-alkyl;
     R<sup>12</sup> is H or C1-C3-alkyl;
     R^{13} and R^{14} are independently
           Η,
           C1-C10-alkyl,
           C1-C6-perfluoroalkyl,
           C3-C10-alkenyl, or
           C3-C6-cycloalkyl; or
     R^{13} and R^{14} taken together can be C3-C6-cycloalkyl;
     R<sup>15</sup> is C1-C6-alkyl, C3-C6-alkenyl, or C3-C6-cycloalkyl;
     n is 1 to 6;
     m is 0 to 2;
or pharmaceutically acceptable salts thereof;
     wherein R^8 and R^9 cannot both be H,
in combination with a pharmaceutically acceptable carrier.
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ζ

Claim 11 (previously presented): The method of claim 10 wherein, in the compound of Formula I, one of four substituents of \mathbb{R}^1 , \mathbb{R}^2 , \mathbb{R}^3 and \mathbb{R}^4 must be C1-C3-alkylthio group, the other

SYM 112 CON (TI-0035) Attorney Docket No.: Pei et al. Inventor: 10/667,069 Serial No.: Filing Date: September 18, 2003 Page 7 substituents are independently H, R110-, R11S-, halogen, or C1-C3alkyl; R^2 and R^3 taken together can be $-SCH_2S$ -, SCH_2O -, or $-OCH_2S$ -; R^7 is $R^{13}R^{14}NCO R^{13}R^{14}NCS R^{13}R^{14}N(HCR^{15}) -$ $R^{15}OCO R^{13}CO-$, or Η; R^8 and R^9 are independently H, H_2N- or CH_3CONH- ; or

Claim 12 (original): The method of claim 11 wherein the compound of Formula I is selected from the group consisting of 4-(4-Aminophenyl)-1,2-dihydro-1-methyl-2-ethylcarbamoyl-6-methylthiophthalazine, 4-(4-Aminophenyl)-1,2-dihydro-1-methyl-2-n-propylcarbamoyl-6-methylthiophthalazine, 4-(4-Aminophenyl)-1,2-dihydro-1-methyl-2-n-butylcarbamoyl-6-methylthiophthalazine, 4-(4-Aminophenyl)-1,2-dihydro-2-ethylcarbamoyl-6-methylthiophthalazine, 4-(4-Aminophenyl)-1,2-dihydro-2-n-propylcarbamoyl-6-methylthiophthalazine, and 4-(4-Aminophenyl)-1,2-dihydro-2-n-butylcarbamoyl-6-methylthiophthalazine.

pharmaceutically acceptable salts thereof.

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Claim 13 (original): The method of claim 10 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claim 14 (original): The method of claim 11 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claim 15 (original): The method of claim 12 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claims 16-24 (canceled).

Claim 25 (previously presented): A method for treating a patient having a disorder associated with excessive activation of the α -amino-3-hydroxy-5-methyl-4-isooxazoleproprionic acid (AMPA) subtype of the ionotropic excitatory amino acid (EAA) receptors, the method comprising administering to the patient, in an effective amount to alleviate the symptoms of the disorder, a compound of Formula II:

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wherein

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R^1, R^2, R^3 and R^4 are independently
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Η,

HO,

 $R^{11}O-$,

halogen,

C1-C3-alkyl,

 CF_3 ,

 $R^{12}CO_2-$

 $R^{12}O_2C_{-1}$

 $R^{12}CO-$,

R¹²CONH-,

R¹²NHCO-,

 $R^{12}NHCO_2-$

R¹²OCONH-,

 $R^{12}O_2S-$,

 $R^{12}OS-$, or

 $R^{13}R^{14}N-;$ or

 R^1 and R^2 , or R^2 and R^3 , or R^3 and R^4 taken together can be $-SCH_2S-$,

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             -SCH<sub>2</sub>O-,
             -OCH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>O-, or
             -OCH<sub>2</sub>CH<sub>2</sub>S-;
      wherein at least one of R^1, R^2, R^3 or R^4 must be a C1-C3-
alkylthio group;
      R^5 is
             Η,
             C1-C6-alkyl,
             C3-C6-alkenyl,
             C3-C6-cycloalkyl,
             phenyl or substituted phenyl, wherein the phenyl is
substituted with one or two substituents selected from the group
consisting of C1-C3-alkyl, halogen, R^{11}O-, CF_3-, R^{12}O_2S-, R^{12}OS-,
R^{12}CO, R^{12}CO_2-, R^{12}O_2C-, R^{12}CONH-, R^{12}NHCO-,
R^{12}NHCO_2-, R^{12}OCONH-, or R^{13}R^{14}N-;
      R<sup>11</sup> is C1-C3-alkyl;
      R^{12} is H or C1-C3-alkyl;
      {\ensuremath{R}}^{13} and {\ensuremath{R}}^{14} are independently
             Η,
             C1-C10-alkyl,
             C1-C6-perfluoroalkyl,
             C3-C10-alkenyl, or
             C3-C6-cycloalkyl; or
      R<sup>13</sup> and R<sup>14</sup> taken together can be C3-C6-cycloalkyl;
      R<sup>15</sup> is C1-C6-alkyl, C3-C6-alkenyl, or C3-C6-cycloalkyl;
      R<sup>16</sup> and R<sup>17</sup> are independently
             Η,
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SYM 112 CON (TI-0035) Attorney Docket No.: Inventor: Pei et al. 10/667,069 Serial No.: September 18, 2003 Filing Date: Page 11 halogen, C1-C3-alkyl, $R^{12}O CF_3-$, or $R^{12}CO_2 - ;$ R^{18} and R^{19} are independently Η, $R^{13}R^{14}N R^{13}HNC(NH)$ -, or R¹²CONH-; or pharmaceutically acceptable salts thereof; wherein R^{18} and R^{19} cannot both be H, in combination with a pharmaceutically acceptable carrier.

Claim 26 (previously presented): The method of claim 25 wherein, in the compound of Formula II, one of four substituents of R^1 , R^2 , R^3 and R^4 must be a C1-C3-alkylthio group, the other substituents are independently H, $R^{11}O$ -, $R^{11}S$ -, halogen, or C1-C3-alkyl;

 $\rm R^2$ and $\rm R^3$ taken together can be -SCH_2S-, -SCH_2O-, or -OCH_2S-; $\rm R^{18}$ and $\rm R^{19}$ are independently H, H_2N-, or CH_3CONH-; or pharmaceutically acceptable salts thereof.

Claim 27 (original): The method of claim 26 wherein the compound of Formula II is selected from the group consisting of 1-(4-Aminophenyl)-6-methylthiophthalazine, 1-(4-Aminophenyl)-7-methylthiophthalazine, 1-(4-Aminophenyl)-4-methyl-6-methylthiophthalazine, 1-(4-Aminophenyl)-4-methyl-6-methylthiophthalazine, 1-(4-Acetylaminophenyl)-4-methyl-6-methylthiophthalazine, 1-(4-Aminophenyl)-4-methyl-7-

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methylthiophthalazine, 1-(4-Acetylaminophenyl)-4-methyl-7-methylthiophthalazine.

Claim 28 (original): The method of claim 25 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claim 29 (original): The method of claim 26 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claim 30 (original): The method of claim 27 wherein the disorder is selected from the group consisting of neurological, neuropsychological, neuropsychiatric, neurodegenerative, neuropsychopharmacological and functional disorders.

Claim 31 (currently amended): A method for decreasing the excessive flux of ions through an α -amino-3-hydroxy-5-methyl-4-isooxazoleproprionic acid (AMPA) subtype of the ionotropic excitatory amino acid (EAA) receptors, the method comprising contacting a cortical cell with an effective amount of a compound of Formula I:

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$$R^3$$
 R^4
 R^5
 R^6
 R^7
 R^9
 R^9
 R^9
 R^9
 R^9

wherein

 R^1 , R^2 , R^3 and R^4 are independently

Η,

HO,

 $R^{11}O-$,

halogen,

C1-C3-alkyl,

CF₃,

 $R^{12}CO_2-$

 $R^{12}O_2C_{-1}$

 $R^{12}CO-$

R¹²CONH-,

 $R^{12}NHCO-$

 $R^{12}NHCO_2-$

R12OCONH-,

 $R^{12}O_2S-$,

 $R^{12}OS-$, or

 $R^{13}R^{14}N-;$ or

 R^1 and R^2 , or R^2 and R^3 , or R^3 and R^4 taken together can be $-SCH_2S-$,

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             -SCH<sub>2</sub>O-,
             -OCH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>S-,
             -SCH<sub>2</sub>CH<sub>2</sub>O-, or
             -OCH<sub>2</sub>CH<sub>2</sub>S-;
      wherein at least one of R^1, R^2, R^3 or R^4 must be a C1-C3-
alkylthio group,
      R^5 and R^6 are independently
             Η,
             C1-C6-alkyl,
             C3-C6-alkenyl,
             C3-C6-cycloalkyl, or
             phenyl or substituted phenyl, wherein the phenyl is
substituted with one or two substituents selected from the group
consisting of C1-C3-alkyl, halogen, R11O-, CF3,
R^{12}O_2S-, R^{12}OS-, R^{12}CO, R^{12}CO_2-, R^{12}O_2C-, R^{12}CONH-, R^{12}NHCO-,
R^{12}NHCO_2-, R^{12}OCONH-, and R^{13}R^{14}N-; or
      R^5 and R^6 taken together can be C3-C6-cycloalkyl;
      R^7 is
             R^{13}R^{14}NCO-
             R^{13}R^{14}NCS-.
             R^{13}R^{14}N(HCR^{15}) - 
             R^{15}OCO-
             R^{13}CO-
             R^{13}R^{14}NCH_2CO-
             R^{12}O_2C - (CH_2)_n - 
             R^{13}R^{14}NCO - (CH_2)_n - 
             NC-(CH<sub>2</sub>)<sub>n</sub>-,
             Η,
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              C1-C6-alkyl,
              C3-C6-alkenyl, or
              C3-C6-cycloalkyl; or
       R^6 and R^7 taken together can be
              -(CH<sub>2</sub>)_mCH<sub>2</sub>(R<sup>13</sup>)NCO-,
              -(CH<sub>2</sub>)<sub>m</sub>CH<sub>2</sub>OCO-, or
              - (CH<sub>2</sub>) mCH<sub>2</sub>CH<sub>2</sub>CO-;
       R^8 and R^9 are independently
               Η,
              R^{13}R^{14}N-
              R^{13}R^{14}N(HCR^{15}) - 
              R<sup>12</sup>HNCO-, or
              R<sup>12</sup>CONH-;
       {
m R}^{10} is
              Η,
              halogen,
               HO,
               R<sup>11</sup>O-,
              R^{13}R^{14}N-
              C1-C3-alkyl,
              CF_3,
               R^{12}CO_2-
              R^{12}CO-, or
              R<sup>12</sup>CONH-;
       R^{11} is C1-C3-alkyl;
       R<sup>12</sup> is H or C1-C3-alkyl;
       R^{13} and R^{14} are independently
              Η,
              C1-C10-alkyl,
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           C1-C6-perfluoroalkyl,
           C3-C10-alkenyl, or
           C3-C6-cycloalkyl; or
     R<sup>13</sup> and R<sup>14</sup> taken together can be C3-C6-cycloalkyl;
     R<sup>15</sup> is C1-C6-alkyl, C3-C6-alkenyl, or C3-C6-cycloalkyl;
     n is 1 to 6;
     m is 0 to 2;
or pharmaceutically acceptable salts thereof;
     wherein R<sup>8</sup> and R<sup>9</sup> cannot both be H.
in combination with a pharmaceutically acceptable carrier
     so that the excessive flux of ions through the AMPA receptor
is decreased.
     Claim 32 (previously presented): The method of claim 31
wherein, in the compound of Formula I, one of four substituents
of R^1, R^2, R^3 and R^4 must be C1-C3-alkylthio group, the other
substituents are independently H, R<sup>11</sup>O-, R<sup>11</sup>S-, halogen or C1-C3-
alkyl;
     R^2 and R^3 taken together can be -SCH_2S-, SCH_2O-, or -OCH_2S-;
     R^7 is
           R^{13}R^{14}NCO-
           R^{13}R^{14}NCS-
           R^{13}R^{14}N(HCR^{15}) - 
           R^{15}OCO-
           R^{13}CO-, or
           Η;
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 R^8 and R^9 are independently H, H_2N- or CH_3CONH- ; or

pharmaceutically acceptable salts thereof.

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Claim 33 (previously presented): The method of claim 32 wherein the compound of Formula I is selected from the group consisting of

 $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-1-\operatorname{methyl}-2-\operatorname{ethylcarbamoyl}-6-$ methylthiophthalazine, $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-1-\operatorname{methyl}-2 n-\operatorname{propylcarbamoyl}-6-\operatorname{methylthiophthalazine},$ $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-1-\operatorname{methyl}-2-n-\operatorname{butylcarbamoyl}-6-\operatorname{methylthiophthalazine},$ $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-2-\operatorname{ethylcarbamoyl}-6-$ methylthiophthalazine, $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-2-n-$ propylcarbamoyl-6-methylthiophthalazine, and $4-(4-A\min \operatorname{ophenyl})-1,2-\operatorname{dihydro}-2-n-\operatorname{butylcarbamoyl}-6-\operatorname{methylthiophthalazine}.$

Claim 34 (previously presented): A method for decreasing the excessive flux of ions through an α -amino-3-hydroxy-5-methyl-4-isooxazoleproprionic acid (AMPA) subtype of the ionotropic excitatory amino acid (EAA) receptors, the method comprising contacting a cortical cell with an effective amount of a compound of Formula II:

wherein

 R^1 , R^2 , R^3 and R^4 are independently

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              Η,
              HO,
              R^{11}O-
              halogen,
              C1-C3-alkyl,
              CF<sub>3</sub>,
              R^{12}CO_2-
              R^{12}O_2C_{-}
              R^{12}CO-
              R<sup>12</sup>CONH-,
              R<sup>12</sup>NHCO-,
              R^{12}NHCO_2-
              R<sup>12</sup>OCONH-,
              R^{12}O_2S-
              R^{12}OS-, or
              R^{13}R^{14}N-; or
       R^1 and R^2, or R^2 and R^3, or R^3 and R^4 taken together can be
              -SCH<sub>2</sub>S-,
              -SCH<sub>2</sub>O-,
              -OCH<sub>2</sub>S-,
              -SCH<sub>2</sub>CH<sub>2</sub>S-,
              -SCH<sub>2</sub>CH<sub>2</sub>O-, or
              -OCH<sub>2</sub>CH<sub>2</sub>S-;
       wherein at least one of R^1, R^2, R^3 or R^4 must be a C1-C3-
alkylthio group;
      R^5 is
              Η,
              C1-C6-alkyl,
              C3-C6-alkenyl,
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            C3-C6-cycloalkyl,
            phenyl or substituted phenyl, wherein the phenyl is
substituted with one or two substituents selected from the group
consisting of C1-C3-alkyl, halogen, R^{11}O-, CF_3-, R^{12}O_2S-, R^{12}OS-,
R^{12}CO, R^{12}CO_2-, R^{12}O_2C-, R^{12}CONH-, R^{12}NHCO-, R^{12}NHCO_2-, R^{12}OCONH-, or
R^{13}R^{14}N-:
     R<sup>11</sup> is C1-C3-alkyl;
     R<sup>12</sup> is H or C1-C3-alkyl;
     R^{13} and R^{14} are independently
            Η,
            C1-C10-alkyl,
            C1-C6-perfluoroalkyl,
            C3-C10-alkenyl, or
            C3-C6-cycloalkyl; or
      R^{13} and R^{14} taken together can be C3-C6-cycloalkyl;
      R<sup>15</sup> is C1-C6-alkyl, C3-C6-alkenyl, or C3-C6-cycloalkyl;
      R^{16} and R^{17} are independently
            Η,
            halogen,
            C1-C3-alkyl,
            R^{12}O-.
            CF_3-, or
            R^{12}CO_2 - :
      R<sup>18</sup> and R<sup>19</sup> are independently
            Η,
            R^{13}R^{14}N-
            R^{13}HNC(NH)-, or
            R<sup>12</sup>CONH-;
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or pharmaceutically acceptable salts thereof;

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wherein R^{18} and R^{19} cannot both be H, in combination with a pharmaceutically acceptable carrier so that the excessive flux of ions through the AMPA receptor is decreased.

Claim 35 (previously presented): The method of claim 34 wherein, in the compound of Formula II, one of four substituents of R^1 , R^2 , R^3 and R^4 must be a C1-C3-alkylthio group, the other substituents are independently H, $R^{11}O$ -, $R^{11}S$ -, halogen, or C1-C3-alkyl;

 $\rm R^2$ and $\rm R^3$ taken together can be -SCH_2S-, -SCH_2O-, or -OCH_2S-; $\rm R^{18}$ and $\rm R^{19}$ are independently H, H_2N-, or CH_3CONH-; or pharmaceutically acceptable salts thereof.

Claim 36 (previously presented): The method of claim 35 wherein the compound of Formula II is selected from the group consisting of

1-(4-Aminophenyl)-6-methylthiophthalazine, 1-(4-Aminophenyl)-7-methylthiophthalazine, 1-(4-Aminophenyl)-7-methylthiophthalazine, 1-(4-Aminophenyl)-4-methyl-6-methylthiophthalazine, 1-(4-Acetylaminophenyl)-4-methyl-6-methylthiophthalazine, 1-(4-Aminophenyl)-4-methyl-7-methylthiophthalazine, 1-(4-Acetylaminophenyl)-4-methyl-7-methylthiophthalazine.